Section 7 of the "Remediation Regulations" Site Investigation Report (SIR)Checklist

Contact Name: Contact Address: Contact Telephone:
Site Name: Site Address:
OFFICE USE ONLY SITE INVESTIGATION REPORT (SIR)SITE: PROJECT CODE: SIR SUBMITTAL DATE: CHECKLIST SUBMITTAL DATE:
DIRECTIONS: The box to the left of each item listed below is for the administrative review of the SIR submission and is for RIDEM USE ONLY . Under each item listed below, cross-reference the specific sections and pages in the SIR that provide detailed information that addresses each stated requirement. Failure to include cross-references may delay review and approval. If an item is not applicable, simply state that it is not applicable and provide an explanation in the SIR.
☐ 7.03.A. List specific objectives of the SIR related to characterization of the release, impacts of the release and remedy.
☐ 7.03.B. Include information reported in the Notification Of Release. A copy of the release notification form should be included in the SIR. Include information relating to short-term response, if applicable.
☐ 7.03.C. Include documentation of any past incidents or releases.
☐ 7.03.D. Include list of prior property owners and operators, as well as sequencing of property transfers and time periods of occupancy.
7.03.E. Include previously existing environmental information which characterizes the contaminated-site and all information that led to the discovery of the contaminated-site.
7.03.F. Include current uses and zoning of the contaminated site, including brief statements of operations, processes employed, waste generated, hazardous materials handled, and any residential activities on the site, if applicable. (This section should be linked to the specific objectives section demonstrating how the compounds of concern in the investigation are those that are used or may have been used on the site or are those that may have impacted the site from an off-site source.)
☐ 7.03.G. Include a locus map showing the location of the site using US Geological Survey 7.5-min quadrangle map or a copy of a section of that USGS map.

☐ 7.03.H	. Include a site plan, to scale, showing:				
	Buildings				
	Activities				
	Structures				
	North Arrow				
	Wells				
	UIC Systems, septic tanks, UST, piping and other underground structures				
	Outdoor hazardous materials storage and handling areas				
	Extent of paved areas				
	Location of environmental samples previously taken with analytical results				
	Waste management and disposal areas				
	Property Lines				
7.03.I. Include a general characterization of the property surrounding the area including, but not limited to:					
	Location and distance to any surface water bodies within 500 ft of the site				
	Location and distance to any environmentally sensitive areas within 500 ft of the site				
	Actual sources of potable water for all properties immediately abutting the site				
	Location and distance to all public water supplies, which have been active within the previous 2 years and within one mile of the site				
	Determination as to whether the release impacts any off-site area utilized for residential or industrial/commercial property or both				
	Determination of the underlying groundwater classification and if the classification is GB, the distance to the nearest GA area				
☐ 7.03.J.	Include classifications of surface and ground water at and surrounding the site that could be impacted by a release.				
□ 7.03.K.	Include a description of the contamination from the release, including:				

		Free liquids on the surface
		LNAPL and DNAPL
		Concentrations of hazardous substances which can be shown to present an actual or potential threat to human health and any concentrations in excess of any of the remedial objectives
		Impact to environmentally sensitive areas
		Contamination of man-made structures
		Odors or stained soil
		Stressed vegetation
		Presence of excavated or stockpiled material and an estimate of its total volume
		Environmental sampling locations, procedures and copies of the results of any analytical testing at the site
		List of hazardous substances at the site
		Discuss if the contamination falls outside of the jurisdiction of the Remediation Regulations, including but not limited to USTs, UICs, and wetlands
	7.03.L.	Include the concentration gradients of hazardous substances throughout the site for each media impacted by the release.
]	7.03.M.	Include the methodology and results of any investigation conducted to determine background concentrations of hazardous substances identified at the contaminated site.
	7.03.N.	Include a listing and evaluation of the site specific hydrogeological properties which could influence the migration of hazardous substances throughout and away from the site, including but not limited to, where appropriate:
		Depth to GW
		Presence and effects of both the natural and man-made barriers to and conduits for contaminant migration
		Characterization of bedrock
		Groundwater contours, flow rates and gradients throughout the site
	7.03.O.	Include a characterization of the topography, surface water and run-off flow patterns, including the flooding potential, of the site

7.03.P.	Include the potential for hazardous substances from the site to volatilize and any and all potential impacts of the volatilization to structures within the site.
7.03.Q.	Include the potential for entrainment of hazardous substances from the site by wind or erosion actions.
7.03.R.	Include detailed protocols for all fate and transport models used in the Site Investigation.
7.03.S.	Include a complete list of all samples taken, the location of all samples, parameters tested for and analytical methods used during the Site Investigation. (Be sure to include the samples locations and analytical results on a site figure).
7.03.T.	Include construction plans and development procedures for all monitoring wells. Well construction must be consistent with the requirements of Appendix I of the <u>Groundwater Quality Regulations</u> .
7.03.U.	Include procedures for the handling, storage and disposal of wastes derived from and during the investigation.
7.03.V.	Include a quality assurance and quality control evaluation summary report for sample handling and analytical procedures, including, but not limited to, chain-of-custody procedures and sample preservation techniques.
7.03.W.	Include any other site-specific factor, that the Director believes, is necessary to make an accurate decision as to the appropriate remedial action to be taken at the site.
al th m	clude Remedial Alternatives. The Site Investigation Report must contain a minimum of 2 remedial ternatives other than no action/natural attenuation alternative, unless this requirement iswaived by the Department. It should be clear which of these alternatives is most preferable. All alternatives ust be supported by relevant data contained in the Site Investigation Report and consistent with the arrent and reasonably forseeable land usage, and documentation of the following:
	Compliance with Section 8 (RISK MANGEMENT);
	Technical feasibility of the preferred remedial alternative;
	Compliance with Federal, State and local laws or other public concerns; and
	The ability of the performing party to perform the preferred remedial alternative

		fication Requirements: The Site Investigation Report and all associated progress reports must the following statements signed by an authorized representative of the party specified:
[A statement signed by an authorized representative of the person who prepared the Site Investigation Report certifying the completeness and accuracy of the information contained in that report to the best of their knowledge; and
[A statement signed by the performing party responsible for the submittal of the Site Investigation Report certifying that the report is a complete and accurate representation of the site and the release and contains all known facts surrounding the release to the best of their knowledge
□ 7.06	perio	gress Reports: If the Site Investigation is not complete, include a schedule for the submission of odic progress reports on the status of the investigation and interim reports on any milestones eved in the project
7.07		lic Notice: Be prepared to implement public notice requirements per Section 7.07 and 7.09 of the rediation Regulations when the Department deems the Site Investigation Report to be complete.